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Page 2 of 8

Preliminary Amendment Applicant(s):Heuts et al. Serial No. 10/507,168 Filed: May 5, 2005

For:POLYMERIZATION OF A REACTIVE DILUENT IN THE PRESENCE OF AN EPOXY-AMINE MATERIAL, AND COATING COMPOSITIONS PREPARED THEREBY

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the aboveidentified application:

1. (Previously Presented) A method of preparing a coating composition, comprising the steps of:

combining an amine and an epoxy material in the presence of a reactive diluent comprising at least one methacrylate compound to provide a composition comprising an advanced molecular weight epoxy-amine material and a reactive diluent;

making an aqueous dispersion of the composition; and polymerizing the reactive diluent to provide the coating composition.

- 2. (Canceled)
- 3. (Original) The method of claim 1, wherein the step of making the aqueous dispersion comprises combining the composition with an acid.
- 4. (Previously Presented) The method of claim 1, wherein the epoxy material is derived from Bisphenol A and epichlorohydrin.
- 5. (Previously Presented) The method of claim 1, wherein the epoxy material is dissolved or dispersed in the reactive diluent.
- 6. (Original) The method of claim 1, wherein the epoxy-amine material has residual epoxy functionality.
- 7. (Original) The method of claim 6, further comprising the step of: reacting the epoxy-amine material having residual epoxy functionality with an active hydrogen compound or precursor.

Preliminary Amendment Applicant(s):Heuts et al. Serial No. 10/507,168 Filed: May 5, 2005

Page 3 of 8

For:POLYMERIZATION OF A REACTIVE DILUENT IN THE PRESENCE OF AN EPOXY-AMINE MATERIAL, AND COATING COMPOSITIONS PREPARED THEREBY

- 8. (Original) The method of claim 7, wherein the step of reacting is carried out before the step of making the aqueous dispersion.
- 9. (Currently Amended) [[A]]The method of claim 7, preparing a coating composition, comprising the steps of:

making an aqueous dispersion of a composition comprising an advanced molecular weight epoxy-amine material having residual epoxy-functionality and a reactive diluent; polymerizing the reactive diluent to provide the coating composition; and reacting the epoxy-amine material having residual epoxy functionality with an active hydrogen compound or precursor;

wherein the step of reacting is carried out after the step of making the aqueous dispersion.

10. (Currently Amended) [[A]]The method of claim 7, preparing a coating composition, comprising the steps of:

making an aqueous dispersion of a composition comprising an advanced molecular weight epoxy-amine material having residual epoxy-functionality and a reactive diluent; polymerizing the reactive diluent to provide the coating composition; and reacting the epoxy-amine material having residual epoxy functionality with an active hydrogen compound or precursor;

wherein the step of reacting is carried out after the step of polymerizing the reactive diluent.

- 11. (Original) The method of claim 1, wherein the coating composition further comprises a crosslinker.
- 12. (Original) The method of claim 1, wherein the aqueous dispersion further comprises a surfactant.

Preliminary Amendment Applicant(s):Heuts et al. Serial No. 10/507,168 Filed: May 5, 2005 For:POLYMERIZATION (

Page 4 of 8

For:POLYMERIZATION OF A REACTIVE DILUENT IN THE PRESENCE OF AN EPOXY-AMINE MATERIAL, AND COATING COMPOSITIONS PREPARED THEREBY

- 13. (Original) The method of claim 3, wherein the composition is combined with a surfactant before combining the composition with the acid.
- 14. (Original) The method of claim 3, wherein the acid is an aqueous acid.
- 15. (Original) The method of claim 1, wherein the step of making the aqueous dispersion comprises:

combining the composition with an acid to provide an acidified composition; and combining the acidified composition with an aqueous liquid.

- 16. (Original) The method of claim 15, wherein the aqueous liquid further comprises a surfactant.
- 17. (Original) The method of claim 1, wherein the reactive diluent comprises a multifunctional material.
- 18. (Currently Amended) [[A]]The method of claim 1, further preparing a coating composition, comprising the [[steps]] step of:

making an aqueous dispersion of a composition comprising an advanced molecular weight epoxy-amine material and a reactive diluent;

adding an additional reactive diluent before the polymerizing step.; and polymerizing the reactive diluent to provide the coating composition.

- 19. (Original) The method of claim 1, wherein the reactive diluent is polymerized by free radical polymerization.
- 20. (Original) The method of claim 1, wherein the coating composition further comprises a solvent.

Preliminary Amendment

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Serial No. 10/507,168

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- 21. (Currently Amended) The method of claim 1, wherein the coating composition is selected from the group consisting of a packaging coating composition, an anticorrosive coating composition, a stain blocker coating composition, a paper coating composition, a cement board coating composition, a fiberboard coating composition, and combinations thereof.
- 22. (Original) The method of claim 1, wherein the coating composition is substantially free of solvent.
- 23. (Original) The method of claim 1, wherein the coating composition has a volatile organic compound content of at most 0.2 kilograms per liter of solids.
- 24. (Original) The method of claim 3, wherein the coating composition has a volatile organic compound content, excluding acid, of at most 0.2 kilograms per liter of solids.
- 25. (Original) A coating composition prepared according to the method of claim 1.
- 26. (Original) A method of coating an article comprising the steps of: applying a coating composition prepared according to the method of claim 1 to an article; and hardening the coating composition to provide a coated article.
- 27. (Original) The method of claim 26, wherein the coating composition further comprises a crosslinker.
- 28. (Original) The method of claim 26, further comprising the step of heating the coated article to provide a crosslinked coating.
- 29. (Original) The method of claim 26, wherein the step of applying comprises applying the coating composition by an electro coat process.

Page 6 of 8
Applicant(s):Heuts et al.
Serial No. 10/507,168
Filed: May 5, 2005
For:POLYMERIZATION OF A REACTIVE DILUENT IN THE PRESENCE OF AN EPOXY-AMINE
MATERIAL, AND COATING COMPOSITIONS PREPARED THEREBY

- 30. (Previously Presented) The method of claim 1 wherein the at least one methacrylate compound comprises butyl methacrylate.
- 31. (Previously Presented) The method of claim 30 wherein the reactive diluent further comprises at least one vinyl compound.
- 32. (Previously Presented) The method of claim 31 wherein the at least one vinyl compound comprises styrene.
- 33. (Previously Presented) The method of claim 32 wherein at least 7.5% by weight and at most 80% by weight reactive diluent is used, based on the total combined weight of epoxy material, amine, and reactive diluent.
- 34. (Previously Presented) The method of claim 33 wherein at least 15% by weight and at most 50% by weight reactive diluent is used, based on the total combined weight of epoxy material, amine, and reactive diluent.